Please amend the claims as follows:

1.   (Previously Presented)   A method for signal processing, wherein a sensor signal of an image sensor is provided as an input and wherein the input is reconstructed in a filter to establish an output for further processing, wherein the filter comprises at least one reconstruction-filter selected from the group consisting of: a luminance-reconstruction-filter, a red-green-blue-color-reconstruction-filter and a contour-reconstruction-filter, and wherein the input comprises a plurality of pixels, and a pixel provides a color value assigned to at least one of the colors red, green or blue,
characterized in that said method comprises the steps of:
applying the luminance-reconstruction-filter to an array of pixels of predetermined array size comprising a number of pixels, wherein at least one of the number of pixels is formed by a red-pixel assigned to the color of red, at least one of the number of pixels is formed by a blue-pixel assigned to the color of blue, and at least one of the number of pixels is formed by a green-pixel assigned to the color of green; and
applying, subsequent to the luminance-reconstruction-filter, the color-reconstruction filter which comprises a false-color-filter to eliminate false colors from the input.

2. (Previously Presented) The method as claimed in claim 1, characterized in that said method further comprises the step of:

    weightening the red- and/or the blue-pixel by a green-parameter.

3. (Previously Presented) The method as claimed in claim 1, characterized in that said method further comprises the steps of:

    summarizing the pixels of the array into one output-pixel; and

    centering the output-pixel in the array, in particular by positioning a center-output-pixel of a second filter subsequent to a first filter in phase with the output-pixel, in particular by centering the center-output-pixel it is centered at the same center position of the array as the output-pixel.

4. (Withdrawn) The method as claimed in claim 1, characterized by applying the false-color-filter to an array of green-pixels of predetermined size, in particular to a predetermined small array of green-pixels having a size of four pixels, comprising at least two green-pixels, one red-pixel and one blue-pixel.

5. (Withdrawn) The method as claimed in claim 1, characterized in that the false-color-filter comprises the following steps:

-    weightening the red- and or blue-pixels in a predetermined small array of green-pixels respectively by one ore more further green-parameters,

-       applying an average filter to one ore more green-pixels in the array,

-       summarizing the weighted red- and blue pixels and an average of one or more of the green-pixels in the array by a median filter,

-       comparing the median-filtered pixels with low-frequency-filtered pixels of the predetermined small array of green-pixels, to thereby eliminate false colors from the input.

6.   (Withdrawn)   The method as claimed in claim 4, characterized in that the predetermined small array of green-pixels has an array-size of 3 x 3.

7.   (Withdrawn)   The method as claimed in claim 1, characterized in that the applied color-reconstruction-filter has an array-size of 3 x 3 or 5 x 5, in particular an array-size of 5 x 5 in case of a heavy sensor matrix.

8.   (Withdrawn)   The method as claimed in claim 1, characterized by applying a post-filter subsequent to a false-color-filter to maintain a phase to a previous applied luminance-reconstruction-filter.

9.   (Withdrawn)   The method as claimed in claim 8, characterized by applying subsequent to a false-color-filter a post-filter of 2 x 2 array-size, to position a center-output-pixel of a predetermined

array of green-pixels in phase with a white-pixel which is centered
as an output-pixel with respect to the same array as that to which
a luminance-reconstruction-filter has been applied to.

10. (Withdrawn) The method as claimed in claim 1, characterized
by either column-wise or row-wise processing with regard to the
matrix.

11. (Currently Amended)   An apparatus for signal processing~~,
which is in particular adapted to execute the method as claimed in
claim 1~~, said apparatus comprising an image sensor for providing a
sensor signal as an input, and a filter for reconstructing the
input to establish an output for further processing, wherein the
filter comprises at least one reconstruction-filter selected from
the group consisting of: a luminance-reconstruction-filter, a red-
green-blue-color-reconstruction-filter and a contour-
reconstruction-filter, wherein
        the input comprises a plurality of pixels and a pixel
provides a color value assigned to at least one of the colors red,
green or blue,
characterized in that the filter comprises:
        ~~the~~ a luminance-reconstruction-filter ~~is adapted to be
applied to~~for filtering, in the input, an array of pixels of
predetermined array size comprising a number of pixels, wherein at
least one of the number of pixels ~~if~~ is formed by a red-pixel
assigned to the color of red, at least one of the number of pixels

is formed by a blue-pixel assigned to the color of blue, and at least one of the number of pixels is formed by a green-pixel assigned to the color of green~~, ; and wherein~~

~~the~~ a color-reconstruction-filter ~~is applied subsequent tocoupled~~ coupled to an output of the luminance-reconstruction-filter~~,~~ and the color-reconstruction-filter ~~which comprises~~comprising a false-color-filter ~~to eliminate~~for eliminating false colors from the input.

12. (Previously Presented) The apparatus as claimed in claim 11, wherein said apparatus further comprises:

    means for weightening the red- and/or the blue-pixel by the array with a green-parameter, and/or

    means for summarizing the pixels of the array into one output pixel, and/or

    means for centering the output pixel in the array.

13. (Previously Presented) A computer-readable medium having stored thereon a computer program product comprising a software code section for causing a computing system to execute the method as claimed in claim 1 when the computer program product is executed on the computing system.

14. (Currently Amended)   A computing system ~~and/or semiconductor device, in particular a computing system~~ of a camera, for executing

~~and/or storing a~~the computer program product stored on the computer-readable medium as claimed in claim 13 ~~thereon~~.

15. (Currently Amended)   A camera comprising an optical system, ~~an image sensor~~ and an apparatus as claimed in claim 11.